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ANSWER 1 OF 1 WEDLINE on STN A significant variability is observed among patients in response to antipsychotics, and is caused by a variety of factors. This review summarizes the available knowledge of associations between pharmacogenetics and drug response in schizophrenia. The multifactorial etiology of schizophrenia makes it a complex interaction of symptoms.

Entered STN: 20 Dec 2005 Last Updated on STN: 28 Feb 2006 Entered Medline: 27 Feb 2006

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Adopting a pharmacogenomics approach represents a unique opportunity for the prediction of response to antipsychotic drugs by investigating genes implicated with specific symptom and side effects. A network model of the interaction/crosstalk between the neurotransmitter signaling systems

Pharmacogenomics: a path to predictive medicine for schizophrenia. Gupta Simone; Jain Sanjeev; Brahmachari Samir K; Kukreti Ritushree Institute of Genomics and Integrative Biology (CSIR), Delhi University Campus, Delhi 110007, India Vol. 7, No. 1, pp. 31-47. Ref: 159 Journal code: 100897350. ISSN: 1462-2416. FILE LAST UPDATED: 7 Apr 2007 (20070407/UP). FILE COVERS 1950 TO DATE Registry Numbers for easy and accurate SINCE FILE ENTRY 0.21 FILE 'MEDLINE' ENTERED AT 12:29:27 ON 09 APR 2007 FILE 'HOME' ENTERED AT 12:29:16 ON 09 APR 2007 Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) General Review; (REVIEW) ANSWER 1 OF 1 MEDLINE ON STN 2005667736 MEDLINE PubMed ID: 16354123 => S L1 AND ANTIPSYCHOTICS 5343 ANTIPSYCHOTICS L2 1 L1 AND ANTIPSYCHOTICS (BRIGHT OR BRIGHTS) England: United Kingdom This file contains CAS Re substance identification. English Priority Journals 2 BRIGHTS 9185 BRIGHT 9184 BRIGHT => FILE MEDLINE COST IN U.S. DOLLARS FULL ESTIMATED COST 200602 Q **^≡** SS BERE

is presented to emphasize the importance of the genes associated with the molecular mechanisms of the disease and drug response. These genes may serve as potential susceptibility genes and drug targets for schizophrenia. The crucial point for the identification of a significant biologic marker(s) will include not only the experimental validation of the genes involved in the neurotransmitter signaling systems, but also the availability of large exactly comparable phenotyped patients samples. Coupling our knowledge of genetic polymorphisms with clinical response medicine.

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cycloaddition to proceed. Treatment of N-allyl-bromoenamide 48 with n-Bu(3)SnH/AIBN preferentially led to the 6-endo trig cyclization product 50, with the best yield (918) baing obtained under high dilutton conditions. The initially generated cyclohexenyl radical derived from 48 produces the pentacyclic heterocycle 50 by either a direct 6-endo trig cyclization or, alternatively, by a vinyl radical rearrangement pathway.

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Novel mechanisms and approaches in the study of enerodegeneration and neuroprotection. a review. Kostrzewa Richard M: Segura-Aguilar Juan Department of Pharmacology, Quillen College of Medicine, Bast Tennessee State University, Johnson City, TN 37614, NS 39272 (NINDS) Neurotoxicity research, (2003) Vol. 5, No. 6, pp. 375-83. Ref. 93 Journal code: 100929017. ISSN: 1029-8428. United States JOURNAL ARTICLE; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
(RESEARCH SUPPORT, U.S. GOV'T, P.H.S.) 2004019152 MEDLINE PubMed ID: 14715440 MEDLINE on STN 2004019152 MEI ANSWER 1 OF 7 ACCESSION NUMBER: CORPORATE SOURCE: DOCUMENT NUMBER: CONTRACT NUMBER: SOURCE: DOCUMENT TYPE PUB. COUNTRY: AUTHOR: TITLE:

Priority Journals 200402 Entered STN: 13 Jan 2004 General Review; (REVIEW) English FILE SEGMENT: ENTRY MONTH: ENTRY DATE: LANGUAGE:

Last Updated on STN: 3 Feb 2004
Entered Medline: 2 Feb 2004
Cellular mechanisms involved in neurodegeneration and neuroprotection are continuing to be explored, and this paper focuses on some novel discoveries that give further insight into these processes. AB

Oligodentrocytes and activated astroglia are likely generators of the pro-inflammatory cytokines, such as the tumor necrosis factor family and interleukin family, and these glial support cells express adhesion receptors (e.g., VCAM) and release intercellular adhesion molecules (LCAM) that have a major role in neuronal apoptosis. Even brief exposure to some substances, in ontogeny and sometimes in adulthood, can have lasting effects on behaviors because of their prominent toxicity (e.g., NMDA receptor antagonists) or because they sensitize receptors (e.g., nMDA oppamine D2 agonists), possibly permanently, and thereby alter

behavior for the lifespan. Cell cycle genes which may be derived from microglia, are the most-recent entry into the neuroprotection schema. Neuroprotection afforded by some common substances [e.g., microtine, green tea polyphenol uncommon substances [e.g., nicotine, green tea polyphenol [-)-epigallocatechin-3-gallate (EGCG), trolox], ordinarily thought to be simple radical scavengers, now are thought to invoke previoualy unsuspected cellular mechanisms in the process of neuroprotection. Although Alzheimer's disease (AD) has features of a continuous spectrum of neural and functional magnetic resonance imaging, indicate that AD can be staged into an early phase which may be more amenable to treatment by drugs that prevent or reverse tau phosphorylation. Neural transplantation, thought to be the last hope for neurally injured patients (e.g., Parkinsonians), may be displaced by non-neural tissue transplants (e.g., Parkinsonians), may be displaced by more amonable to provide similar neurotrophic support and improved behavior - without posing the major ethical dilemma of removing tissue from aborted fetuses. The objective of this paper is to invite added research into the newly discovered (or postulated) novel mechanisms; and to stimulate discovery of additional mechanisms attending neurodegeneration and neuropecetion.

EM: 2003582573 MEDLINE
R: PubMed ID: 14663001
Adenosine-dopamine interactions: development of a concept and some comments on therapeutic possibilities.
Eredholm Bertil B: Svenningsson Per E: Department of Physiology and Pharmacology, Karolinska Institutet, Stockholm, Sweden.. Bertil.Fredholm@fyfa.ki.se Neurology, (2003 Dec 9) Vol. 61, No. 11 Suppl 6, pp. 55-9. Ref: 63 Journal code: 0401060. E-ISSN: 1526-632X. Abridged Index Medicus Journals; Priority Journals 200402 Journal, Article, (JOURNAL ARTICLE) General Review; (REVIEW) English Entered STN: 16 Dec 2003 Last Updated on STN: 12 Feb 2004 Entered Medline: 11 Feb 2004 ANSWER 2 OF 7 ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: LANGUAGE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: DOCUMENT TYPE: PUB. COUNTRY: SOURCE: AUTHOR:

AB

This brief review presents a personal perspective on the historical development of the current knowledge about the biologically important concept of functional antagonism between adenosine A2A and dopamine D2 receptors in caddace-putamen, accumbens, and tuberculum olfactorium. In the 1970s, studies of dopamine actions suggested an unexpected role of adenosine. Developments during the next decade substantiated this finding and demonstrated that a subform of adenosine A2 receptors was enriched in the basal ganglia. Cloning of adenosine receptors provided better tools for cellular localization and showed that A2A receptors are closely associated with D2 receptors. Distinct functional interactions at several levels were discovered, and there is now strong evidence that A2A receptors are closely dopamine acting at D2 receptors. Development of selective antagonists and knockout mice have highlighted the potential usefulness of A2A antagonists in decreasing symptoms and progression of Parkinson's disease-something are in decreasing symptoms and progression of Parkinson's disease-something that has also been vindicated by careful epidemiologic studies. There issues of efficacy and potential side effects that need to be resolved, but the future looks bright.

PubMed ID: 14647530 MEDLINE on STN 2003565927 MED L6 ANSWER 3 OF 7. ACCESSION NUMBER: DOCUMENT NUMBER:

Neuropharmacological profile of an atypical antipsychotic, Hirota Shiho; Kawashima Naoya; Chaki Shigeyuki; Okuyama AUTHOR:

Psychiatric Diseases and Pain Research, Medicinal CORPORATE SOURCE:

Pharmacology Laboratory, Medicinal Research Laboratories, Taisho Pharmaceutical Co., Ltd., 1-403 Yoshino-cho, Kita-ku, Saitama, Saitama 31-9530, Japan.. Shino. hicrca@po.rd.taisho.co.jp CNS drug reviews, (2003 Winter) Vol. 9, No. 4, pp. 375-88. Ref: 70 Journal code: 9514898. ISSN: 1080-563X. United States

Journal; Article; (JOURNAL ARTICLE) PUB. COUNTRY: DOCUMENT TYPE:

General Review; (REVIEW) FILE SEGMENT:

LANGUAGE:

ENTRY MONTH: ENTRY DATE:

LANGUAGE: Brights Notice, Control of the Profit of the World's population. A new generation of atypical antipsychotics has been introduced over the past decade. These atypical antipsychotics have comparable or greater efficacy than traditional antipsychotics have comparable or greater efficacy than traditional antipsychotics have comparable or greater efficacy than traditional antipsychotics in the treatment of the psychotic symptoms of schizophrenia and a much improved neurologic side effect profile. This paper reviews the pharmacological efficacy and safety of a potential atypical antipsychotic. NRA0562 has a high affinity for dopamine D1, D21, D4.2, 5-HT2A receptors as well as alphal-adrenoceptors, and has a moderate affinity for HI receptors. NRA0562 strongly binds to 5-HT2A receptors and alphal-adrenoceptors; in the frontal correte, its binding to striatal D2 receptors is weaker, similar to that of closapine. NRA56 displayed potent antipsychotic activities in animal models of schizophrenia, such as methamphetamine (MAP)-induced hyperactivity, apomorphine-induced disruption of pre-pulse inhibition and conditioned avoidance test. NRA056 is more potent in reversing the inhibitory effects of MAP at A10 than at A9 dopamine neurons. It increased Fos-like immunoreactivity in the nucleus accumbens more effectively than in the dorsolateral striatum, indicating that NRA0562 has the profile of an atypical antipsychotic conjugated certification and conditioned avoidance test. NRA0562 is more potent in reversing the inhibitory effects of MAP at A10 than at A9 dopamine neurons. It increased Fos-like immunoreactivity in the nucleus accumbens more effectively than in the dorsolateral striatum, indicating that NRA0562 nest repyramidal side effects. Thus, NRA0562 may have unique antipes endique certification artipsychotic certification artipsychotic certification artipsychotic certifica AB

ANSWER 4 OF 7 ACCESSION NUMBER:

HEDLINE on STN
PUDMED 11612145
Rapid regulation of dopamine transporter function by substrates, blockers and presynaptic receptor ligands. Gulley Joshua M: Zahniser Nancy R: Department of Pharmacology and Neuroscience Program, University of Colorado Health Sciences Center, Campus Box C-236, 4200 E Ninth Avenue, Denver, CO 80262, USA... DA 04216 (NIDA) DOCUMENT NUMBER:

AUTHOR: CORPORATE SOURCE:

European journal of pharmacology, (2003 Oct 31) vol. 479, No. 1-3, pp. 139-52. Ref: 140 Journal code: 1254354. ISSN: 0014-2999. CONTRACT NUMBER: SOURCE:

Journal; Article; (JOURNAL ARTICLE) KESEARCH SUPPORT, U.S. GOV'T, P.H.S.) General Review; (REVIEW) English Netherlands PUB. COUNTRY: DOCUMENT TYPE:

LANGUAGE:

Priority Journals FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

Entered STN: 13 Nov 2003 Last Updated on STN: 21 Jul 2004 Entered Medline: 20 Jul 2004

Anteread Mediline: 20 ul 2004 bill 2004 bill 2004 binding to dopamine transporters and translocation back into dopamine neurons. The transporter thereby serves as an optimal target to regulate dopamine neurotransmission. Although acute pharmacological blockade of dopamine neurotransmission. Although acute pharmacological blockade of dopamine transporters is known to reversibly inhibit transporter function by preventing the binding of its endogenous substrate dopamine, it recently has become clear that dopamine transporter substrates, such as amphetamines, and blockers, such as cocaine, also have the ability to rapidly and persistently regulare transporter function after their direct pharmacological effect has subsided. Presynaptic receptor ligands can also regulate dopamine transporter function. This has been investigated most extensively for dopamine DZ receptors, but there is also evidence for regulation by gamma-mainobutyric acid (GABA) GABAB receptors, metabotropic glutamate, nicotinic acetylcholine, serotonin, sigma2- and kappa-opioid receptors. The focus of this review is the reapid, typically reversible, regulation of dopamine transporter velocity by substrates, blockers and presynaptic receptor ligands. The research discussed here suggests that a common mechanism through which these different classes of compounds regulate transporter activity is by altering the cell surface expression of dopamine transporters. AB

2003364198 MEDLINE PubMed ID: 12895600 MEDLINE on STN L6 ANSWER 5 OF 7 ACCESSION NUMBER: DOCUMENT NUMBER:

The second GGD(2) receptor CRTH2: structure, properties, and functions in leukocytes.

Nagata Kinya: Hirai Hirayuki
R&D Centre, Bio Medical Laboratories, Inc, 1361-1 Matoba, Kawagoe, Saitama 350-1101, 39apan. nagate8atk.co.jp
Prostaglandins, leukotrienes, and essential fatty acids, (2003 Aug-Sep) Vol. 69, No. 2-3, pp. 169-77. Ref: CORPORATE SOURCE:

SOURCE:

Journal code: 8802730. ISSN: 0952-3278. Scotland: United Kingdom (COMPARATIVE STUDY) Journal, Article; (JOURNAL General Review; (REVIEW) English PUB. COUNTRY: DOCUMENT TYPE:

(JOURNAL ARTICLE)

Priority Journals 200404 FILE SEGMENT: ENTRY MONTH: ENTRY DATE: LANGUAGE:

EMTRY DATE: Entered STN: 5 Aug 2003

ENTRY DATE: Last Updated on STN: 17 Apr 2004

Entered Medline: 16 Apr 2004

Enter Tobological functions: Until just a few years ago, it was thought that most of the biological actions of PGD(2) are mediated via the classical PGD(2) receptor. Pr Recently, we identified a second PGD(2) receptor. CTD): Calls (CFMTA), with different functions relative to DP. Here, we review the recent findings on the structure, tissue distribution, ligand selectivity, signalling pathways, and functions in leukocytes of this receptor. The data suggest that the PGD(2)/CRTH2 system play important roles in allergic infilametion through its stimulatory effects on Th2 cells, eosinophils, and basophils. AB

2003288164 MEDLINE PubMed ID: 12814658 MEDLINE on STN ANSWER 6 OF 7 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

Targeting striatal cholinergic interneurons in Parkinson's disease: focus on metabotropic glutamate receptors.

CENTRY DATE:

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Priority Journals

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Entered STN: 20 Jun 2003

ENTERY DATE:

Last Updated on STN: 12 Aug 2003

Entered Medline: 11 Aug 2003

AB In the early sixties, anticholinergic drugs were introduced in the pharmacotogical treatment of Perkinson's disease (PD). The rationale behind their utilisation in the treatment of the disease was based on the collinergic innervation within the striatum. Metabotropic glutamate (MGIU) receptors have been shown to play a key role in striatal function both in physiclogical conditions and in experimental models of diseases affecting this brain area. Indeed, compelling electrophysiclogical and morphological evidence shows that mGIU receptors are highly expressed at cellular level and exert a profound modulatory role on cholinergic interneurons excitability. This review will provide a brief survey of studies on the localization and function of mGIU receptors in cholinergic interneurons. The potential relevance of these findings in the control of motor function and in the treatment of PD will be 2. 200377541 MEDLINE
PubMed ID: 12801600
Neurotensin: dual roles in psychostimulant and antipsychotic drug responses.
Dobner Faul R. Deutch Ariel Y: Fadel Jim Department of Molecular Genetics and Microbiology, Program in Neuroscience, University of Massachusetts Medical School, 55 Lake Ave. North, Worcester 01655, USA.. paul.dobner/umassmed.edu
HL-33307 (NHHB)
MH-45124 (NIMH)
MH-57795 (NIMH)
NS-44282 (NIMB)
Life sciences, (2003 Jun 27) Vol. 73, No. 6, pp. 801-11. Ref: 82
Journal code: 0375521. ISSN: 0024-3205. DATE: Entered STN: 13 Jun 2003
Last Updated on STN: 18 Jul 2003
Entered Medline: 17 Jul 2003
Central administration of neurotensin (NT) results in a variety of neurobehavioral effects which, depending upon the administration site, resemble the effects of antipsychotic drugs (APDs) and psychostimulants. A; Bonsi P; Centonze D; Gubellini P; Bernardi Pisani A; Bonsi P; Centonze D; Gubellini P; Bernard Calabresi P Clinica Neurologica, Dipartimento di Neuroscienze, Uluivarsita di Roma Tor Vergata, Rome, Italy... pisani@uniroma2.it England: United Kingdom Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) (RESEARCH SUPPORT, U.S. GOV'T, P.H.S.) General Review; (REVIEW) Neuropharmacology, (2003 Jul) Vol. 45, 45-56. Ref: 95 Journal code: 0236217. ISSN: 0028-3908. England: United Kingdom Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) Priority Journals ANSWER 7 OF 7 L6 ANSWER 7 OF 7 ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: CORPORATE SOURCE: CONTRACT NUMBER: discussed. PUB. COUNTRY: DOCUMENT TYPE: DOCUMENT TYPE: FILE SEGMENT: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: PUB. COUNTRY: ENTRY MONTH: ENTRY DATE: LANGUAGE: LANGUAGE: SOURCE: SOURCE: AB

AB

All clinically effective APDs exhibit significant affinities for dopamine D(2) receptors, supporting the hypothesis that an increase in dopaminergic tone contributes to schizophrenic symptoms. Psychostimulants increase extracellular dopamine (DA) levels and chronics administration can produce psychotic symptoms over time. APDs and psychostimulants induce Fos and NT expression in distinct striatal subregions, suggesting that changes in gene expression underlie some of their effects. To gain insight into the functions of NT, we analyzed APD and psychostimulant induction of Fos in NT knockout mice and rates pretreated with the NT anagonist SR 48692. In both NT knockout mice and rates pretreated with SR 48692, In both NT knockout mice and rates pretreated with SR 48692. In haloperidol-induced Fos expression was markedly attenuated in the dorsolateral striatum; amphetamine-induced Fos expression was reduced in the medial striatum; amphetamine-induced Fos expression was reduced in the activation of specific subpopulations of striatal neurons in distinct striatal subregions in response to both APDs and psychostimulants. This TOTAL SESSION 15.45 REGISTRY includes numerically searchable data for experimental and predicted properties as well as taggs indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to: New CAS Information Use Policies, enter HELP USAGETERMS for details. review integrates these new findings with previous evidence implicating NT in both APD and psychostimulant responses. Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem. STRUCTURE FILE UPDATES: 8 APR 2007 HIGHEST RN 929518-97-8 DICTIONARY FILE UPDATES: 8 APR 2007 HIGHEST RN 929518-97-8 => SEL 3
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2003565927 MEDLI PubMed ID: 14647530

Neurophermacological profile of an atypical antipsychotic, NRA0562. Hirota Shiho; Kawashima Naoya; Chaki Shigayuki; Okuyama Shigera Shiho; Kawashima Naoya; Chaki Shigayuki; Okuyama Shigera Psychiatric Diseases and Pain Research, Medicinal Pharmacology Laboratory, Medicinal Research Laboratories, Taisho Pharmaceutical Co., Ltd., 1-403

70 (oshino-cho, Kita-ku, Saitama, Saitama 331-9530, Japan..

No. 4, pp. 375-88. shiho.hirota@po.rd.taisho.co.jp CNS drug reviews, (2003 Winter) Vol. 9, Journal code: 9514898. ISSN: 1080-563X. 급

United States

Journal; Article; (JOURNAL ARTICLE) General Review; (REVIEW)

English

Priority Journals 200401

Entered STN: 16 Dec 2003 Last Updated on STN: 21 Jan 2004 Entered Medline: 20 Jan 2004

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MF C10 H15 N
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LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BELLSTEIN*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMALST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK**, PROMT, PS, RTECS*, SCISBARCH, SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPATFULL
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(**Enter CHEMLIST File for up-to-date regulatory information)

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S 4580 REFERENCES IN FILE CA (1907 TO DATE)
100 REFERENCES TO NON-SPECIFIC DERLYATIVES IN FILE
4597 REFERENCES IN FILE CAPLUS (1907 TO DATE)
19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> LOG HOLD COST IN U.S. DOLLARS

TOTAL SESSION 31.01 SINCE FILE ENTRY 3.75 FULL ESTIMATED COST

SESSION WILL BE HELD FOR 120 MINUTES STN INTERNATIONAL SESSION SUSPENDED AT 12:55:36 ON 09 APR 2007

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TOTAL SESSION 31.01 SINCE FILE COST IN U.S. DOLLARS FULL ESTIMATED COST -> FILE 2002/PY

'2002/PY' IS NOT A VALID FILE NAME SESSION CONTINUES IN FILE 'REGISTRY' Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

products requiring biosphorodiamidates as novel anticancer products requiring bioreductive activation.

Jain Monish; Kwon Chul-Hoon
Health Professions, St John's University, Jamaica, New York 11439, USA.
Journal of medicinal chemistry, (2003 Dec 4) Vol. 46, No. 25,
pp. 5428-36.

Journal code: 9716531. ISSN: 0022-2623.

Journal code: 9716531. ISSN: 0022-2623. FILE LAST UPDATED: 7 Apr 2007 (20070407/UP). FILE COVERS 1950 TO DATE. TOTAL SESSION 31.46 This file contains CAS Registry Numbers for easy and accurate substance identification. SINCE FILE ENTRY 4.20 (BENZISOXAZOLE OR BENZISOXAZOLES) O L12 AND BENZISOXAZOLE s> S BENZISOXAZOLE AND 2003/PY 116 BENZISOXAZOLE 20 BENZISOXAZOLES 130 BENZISOXAZOLE (EENZISOXAZOLE OR BENZISOXAZOLES) 569314 2003/PY FILE 'MEDLINE' ENTERED AT 13:05:22 ON 09 APR 2007 Journal; Article; (JOURNAL ARTICLE) (20030000-20039999/PY) 5 BENZISOXAZOLE AND 2003/PY => S 2002/PY Lll 542785 2002/PY (20020000-20029999/PY) MEDLINE on STN Entered STN: 16 Dec 2003 Last Updated on STN: 17 Jan 2004 Entered Medline: 16 Jan 2004 ANSWER 1 OF 5 MEDLINE on STN 2003569076 MEDLINE PubMed ID: 14640551 (REVIEW OR REVIEWS) 30323 L11 AND REVIEW s> S L12 AND BENZISOXAZOLE 116 BENZISOXAZOLE 20 BENZISOXAZOLES 130 BENZISOXAZOLE English Priority Journals 200401 => S L11 AND REVIEW 475081 REVIEW 59625 REVIEWS 520853 REVIEW => FILE MEDLINE COST IN U.S. DOLLARS ANSWER 2 OF 5 2003405077 FULL ESTIMATED COST => D 1-5 L14 AN DN TI L14 AN 1,12 113 114 E E E CS So 겁

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Department of Chemistry, Tokyo Institute of Technology, and CREST, Japan Science and Technology (JST) Corporation, O-okayama, Meguro-ku, Tokyo 152-8551, Japan.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Risperidone (Risperdal): clinical experience with a new antipsychosis drug.
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116 BENZISOXAZOLES
130 BENZISOXAZOLES
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Journal code: 100890393. ISSN: 1523-7060.
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Last Updated on STN: 17 Jul 2003
Entered Medline: 16 Jul 2003
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AB Risperidone is a benzisoxazole derivative which has proven efficacy against the positive and negative symptoms of schizophrenia. It has more recently been investigated and shown efficacy as a treatment for has more recently been investigated and shown efficacy as a treatment for the behavioural and psychological symptoms associated with demential in the elderly. Risperidone has pharmacological properties resembling those of the atypical antipsychotic clozapine and an improved tolerability profile compared with the conventional antipsychotic haloperiador. Risperidone has antipsychotic activity primarily at serotonin 5-HT2A and dopamine by receptors. In the first 2 large, well controlled trials of an antipsychotic agent used in the treatment of aderly patients with Alzheimer's dementia, vascular dementia or mixed dementia, risperidone has antipsychotic agent used in the treatment of aderly patients with Alzheimer's dementia, vascular dementia or mixed dementia, risperidone has a sessed by the rating scales for global behaviour, aggression and psychosis. In extension phases of the 2 trials, clinical benefits were maintained for treatment periods of up to 1 year, with an incidence rate of tardive dyskinesia (2.6%) one-tenth of that seen with conventional antipsychotics. Risperidone, and antistered at a low dosage of 1 mg/day was associated with demential symptoms compared with haloperidol in elderly patients. Risperidone was well tolerated with no clinically relevant abnormalities In laboratory tests, vital signs or electrocardiogram results. Conclusion: The behavioural and psychological symptoms associated with dementia in the elderly. Preliminary results from 1-year extension studies confirm the federace of the elderly. Preliminary results from 1-year extension studies confirm the federace of the elderly. Preliminary results from 1-year extension studies confirm the federace of effective are required and the long term use of the drug requires clarification, risperidone represents a generally well tolerated and Adis International Limited, Mairangi Bay, Auckland, New Zealand.. demail@adis.co.nz Drugs & aging, (2000 Jun) Vol. 16, No. 6, pp. 451-71. Ref: impressions of efficacy and tolerability. Minimal sedation, relatively little weight gain and absence of anticholinergic manifestations contribute to the relative tolerability of risperidone as compared to older neutroleptics. However, risperidone is associated with hyperprolactinaemia which can result in amenorrhoea and sexual dysfunction. Compared to older neuroleptics, pharmacoeconomic studies have shown that use of risperidone is associated with reduced hospitalisation and direct cost savings. A recent study found equivalent efficacy between risperidone and clozapine for treatment-resistant efficacy between risperidone and clozapine for treatment-resistant positive but conflicting findings. The overall positive experience with risperidone has resulted in the drug being widely recommended as a first Risperidone: a review of its use in the management of the behavioural and psychological symptoms of dementia. Bhana N; Spencer C $\rm M$ Journal code: 9102074. ISSN: 1170-229X Journal; Article; (JOURNAL ARTICLE) General Review; (REVIEW) Entered STN: 22 Mar 2001 Last Updated on STN: 22 Mar 2001 MEDLINE on STN 036398 MEDLINE line treatment option for psychoses. 2001036398 MEDLI PubMed ID: 10939309 Priority Journals New Zealand English 200011 ANSWER 2 OF 14 ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: DOCUMENT TYPE: PUB. COUNTRY: LANGUAGE: SOURCE: AUTHOR: AB

L15 ANSWER 3 OF 14 MEDLINE on STN

PubMed ID: 10087034 ACCESSION NUMBER: DOCUMENT NUMBER:

S-16924, a novel, potential antipsychotic with marked serctorinilA agoinst properties. IV. A drug discrimination comparison with clozapine.
Millan M J; Schreiber R; Monneyron S; Denorme B; Melon C; Queriaux S; Dekeyne A linstitut de Recherches Servier, Centre de Recherches Gristitut de Recherches Servier, Centre de Recherches Grissy, Psychopharmacology Department, Croissy-sur-Seine, CORPORATE SOURCE:

Paris, France. 1940 Journal of pharmacology and experimental therapeutics, (1999 Aprl) Vol. 289, No. 1, pp. 427-36 Journal code: 0376362. ISSN: 0022-3565.

SOURCE:

AUTHOR:

United States DOCUMENT TYPE: PUB. COUNTRY

(COMPARATIVE STUDY)
Journal; Article; (JOURNAL ARTICLE) English LANGUAGE:

Priority Journals 199904 FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

ENTRY DATE:

Entered STN: 4 May 1999

Last Updated on STN: 18 Jan 2003

Last Updated on STN: 18 Jan 2003

Entered Mediline: 21 Apr 1999

AB The novel benzodicoxopyrrolidine (5-16024) displays a clozapine-like profile of interaction with multiple monoaminergic receptors, in addition to prefile of interaction with multiple monoaminergic receptors, in addition and clozapine (5.0 mg/kg i.p.) generated robust discriminative stimuli (DS) and clozapine (5.0 mg/kg i.p.) generated robust discriminative stimuli (DS) and displayed full mutual generalization. The D4 antagonists L-745,870 and S-18126, the D105 antagonist SCH-3916, and the D4 antagonist S-16224, but only partially generalized to Clozapine. The D2/D3 antagonist raclopride fully generalization to S-16924 and two further s-16224, but only partially generalized to S-16924 and two further S-HTZA antagonists MD1-100, 907 fully generalized to S-16924 and two further s-HTZA antagonists SD-200, 646 and SB-205, 553 more markedly generalized to S-16924 and two further less pronounced generalization to clozapine. Similarly, the S-HTZC antagonists SD-200, 646 and SB-205,553 more markedly generalized to S-16924 than oc to clozapine. The S-HTAL receptor agonist (+/-)8-dihydroxy-2-(dinnpropylamino) tetralin generalized fully to S-16924 but not to clozapine for the clozapine congeners, clamazapine and quetiapine. However, the benzisoxazole, risperidone, which possesses 5-HTJA agonist properties, generalized fully to S-16924 but not to clozapine end partially to S-16924 but not to clozapine end partially to S-16924 but not to clozapine generalized fully to S-16924 but not to clozapine for the muscarinic antagonist scopolamine generalized fully to clotapine and partially to S-16924 in conclusion, S-16924 but not to clozapine generalized fully to S-16924 but not to clozapine and partially to S-16924 in conclusion, S-16924 but not ΑB

Department of Pharmaceutical Sciences, School of Pharmacy, University of Pittsburgh, Pennsylvania, USA. Pharmacotherapy, (1997 May-Jun) Vol. 11, No. 3, pp. 617-21. Journal code: 8111305. ISSN: 0277-0008. Neuroleptic malignant syndrome with risperidone. Gleason P P; Conigliaro R \boldsymbol{L} MEDLINE MEDLINE on STN PubMed ID: 9165568 97308342 ANSWER 4 OF 14 ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: SOURCE:

(CASE REPORTS)

PUB. COUNTRY: DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE) LANGUAGE:

Priority Journals FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

EMPRY DATE:
Entered STN: 24 Jul 1997

Last Updated on STN: 24 Jul 1997

Last Updated on STN: 24 Jul 1997

Last Updated on STN: 24 Jul 1997

Benered Medine: 15 Jul 1997

Benered Medine: 15 Jul 1997

By Proceptor blockade in the striatum of the basal ganglia.

Risperidone, a benzisoxazole derivative antipsychotic, has high serotonin 5-HTZ receptor blockade and dose-related DZ receptor blockade. The high ratio is believed to impart the low frequency of extrapyramidal symptoms with risperidone at low dosages. With this low frequency of extrapyramidal symptoms, it was thought the frequency of environmental symptoms in the structure of the syndrome might also be lowered A T3-var-old woman developed neuroleptic malignant syndrome after monotherapy with risperidone. The syndrome reversed after discontinuing risperidone and starting treatment with denrivalene and bromocriptine. It appears that the protection from enviroleptic malignant syndrome, side effects observed with risperidone does not ensure protection from neuroleptic malignant syndrome. ΑB

9614226 MEDLINE PubMed ID: 8543544 Risperidone as a treatment for Tourette's syndrome. Brunn R D; Budman C L Cornell University Medical School, New York, N.Y., USA. The Journal of clinical psychiatry, (1996 Jan) Vol. 57, No. MEDLINE on STN ANSWER 5 OF 14 ACCESSION NUMBER: DOCUMENT NUMBER: AUTHOR: CORPORATE SOURCE:

1, pp. 29-31. Journal code: 7801243. ISSN: 0160-6689. United States (CLINICAL TRIAL) Journal; Article; (JOURNAL ARTICLE)

DOCUMENT TYPE:

LANGUAGE:

PUB. COUNTRY:

Priority Journals 199602 English FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

ENTRY DATE:
Instead on STN: 27 Feb 1996
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Instead bedline: 9 Feb 1996
Instead bedline: 9 Feb 1996
BACKGROUND: An open-label trial was performed to assess the efficacy and safety of tisperidone, a benzisoxazole derivative with potent to 2 and 5-HTZ antagonism, for treatment of Tourette's syndrome volunteered to take insperidon for treatment of their ties. All patients had falled to respond adequately to conventional treatments (with neuroleptics such as haloperidon and/or with the alpha 2-adreneyic agonist clonidine) or had suffered from intolerable side effects from such treatments. Patients were monitored carefully for side effects from such treatments
Fatients were monitored carefully for side effects and clinical response. RESULTS: Of the 3B patients & discontinued risperidone treatment before the end of the trial because of intolerable side effects. At the end of the trial because of intolerable side effects. At the end of the symptoms, and 1 patient (3%) had a documented worsening of tics. Doses of risperidone at the end of the trial ranged from of papers of intolerable change in their symptoms, and 1 patient (3%) had a documented from 0 by my day (mean = 2.7 mg/day). CONCLUSION: This open clinical trial suggests that risperidone may be a promising alternative to conventional medications used for treating the symptoms of Tourette's syndrome. AB

95348446 MEDLINE PubMed ID: 7542676 MEDLINE on STN ANSWER 6 OF 14 ACCESSION NUMBER: DOCUMENT NUMBER:

A pharmacological, pharmacokinetic and clinical overview of risperidone, a new antipsychotic that blocks serotonin 5-HTZ and dopamine DZ receptors.

AUTHOR:

College of Pharmacy, College of Medicine, University of Saskatchewan, Saskatoon, Canada. International clinical psychopharmacology, (1995 Mar) Vol. 10, No. 1, pp. 19-30. Ref: 78 Journal code: 8609061. ISSN: 0268-1315. CORPORATE SOURCE: SOURCE:

ENGLAND: United Kingdom Journal, Article; (JOURNAL ARTICLE) General Review; (REVIEW) English PUB. COUNTRY:

DOCUMENT TYPE:

Priority Journals 199508 FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

LANGUAGE:

ENTRY DATE:
Entered STN: 11 Sep 1995
ENTRY DATE:
Entered Mediline: 30 Ang 1996

Risperidone is a benzisoxazole derivative with antipsychotic
activity that is chemically uncelated to other currently available activity that is chemically uncelated to other currently available activity that is chemically uncelated to other currently available activity that is chemically uncelated to other currently available bens control by potent central antegonism of both servotonin 5-HTZ and dopamine been studied in healthy subjects as well as in psychotic patients. The bean studied in healthy subjects as well as in psychotic patients. The absolute oral bioavailability of trisperidone is nearly 70%, and after oral administration, it is rapidly absorbed with the plasma level reaching a peak at about 1 h. 9-Hydroxyrisperidone, one of the metabolites of risperidone, is equally active with the parent compound and so the clinical activity of a dose of risperidone is due to the combined actions of both moieties. The plasma concentrations of risperidone and its active metabolite remain dose proportional even at doses exceeding the therapeutic range. In clinical trials with chronic schizophrenia patients, risperidone has an overall therapeutic activity comparable with the negative symptoms of schizophrenia, risperidone has a greater effect on the negative symptoms of schizophrenia, risperidone has a greater effect on the negative symptoms of schizophrenia, risperidone has a greater effect on haloperidol. However, additional controlled clinical studies are negative symptoms of schizophrenia, risperidone has a greater effect on risperidone with classified and the classifier in creatment-resistant schizophrenics, studies adequately comparind risperidone suggested to be established firmily. Although risperidone suggests that the development of compounds with selective affinity for 5-HTZ or other servotonin receptors may result in even further improvements in the pharmacotherappy of psychiatric decrease. AB

MEDLINE on STN 25523 MEDLINE L15 ANSWER 7 OF 14 ACCESSION NUMBER: DOCUMENT NUMBER:

AUTHOR:

9522523
PubMed ID: 7707315
PubMed ID: 7707315
3-[(Aryloxy)alkyl)piperidinyl]-1,2-benzisoxazoles
as 12/5-HT2 antagonists with potential arypical
antipsychotic activity: antipsychotic profile of
iloperidone (HP 873).
Strupczewski J T; Bordeau K J; Chiang Y; Glamkowski E J;
Conway P G; Corbett R; Hartman H B; Szewczak M R; Wilmot C
A; Helsley G C
A; He CORPORATE SOURCE:

7, pp. 1119-31. Journal code: 9716531. ISSN: 0022-2623. United States

SOURCE:

(IN VITRO) PUB. COUNTRY: DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE) English

Priority Journals LANGUAGE: FILE SEGMENT:

ENTRY MONTH: ENTRY DATE:

ENTRY DATE:

Entered STN: 18 May 1995

Last Updated on STN: 18 May 1995

Last Updated on STN: 18 May 1995

AB A series of 3-[([aryloya]akylplperidinyl]-1,2-benzisoxazoles

was synthesized and evaluated as potential antipsychotic D2
//5-HT2 antagonists. Most of these compounds showed potent
antipsychotic-1, we are of these compounds showed potent
antipsychotic-1, we are refered in an apomorphine-induced climbing mouse
paradigm, with many also showing preferential mesolimbic activity, as
indicated by their weaker effects in an apomorphine-induced stereotypy
model. In receptor binding assays, many displayed a moderate affinity for
the D2 receptor coupled with a significantly greater affinity for
the D2 receptor coupled with a significantly greater affinity
for the 5-HT2 receptor: a property that has been suggested as necessary
for atypicality. From this series, compound 45, 1-[4-[3-[4-(6-fluoro-1,2-benzisoxazo-1-3-y]-1-pperidinyl) propoxyl-3-methoxyphenyl-lethanone
(iloperidone HP 873), was further evaluated in a battery of in vivo and
in vitro assays. This compound showed a 300-fold greater potency in
inhibition of climbing than in inhibition of stereotypy or induction of
catalepsy, and when evaluated chronically in an electrophysiological
model, 45 caused a depolarization blockade of dopamine neurons in the All
area of the rat barain but not in the A9 area. Additionally, it showed
positive activity in a sociality, a component of the negative symptoms of
efficacy against asociality, a component of the negative symptoms of
schizophemia. In chronic ex vivo studies, 45, similar to clozapine
caused a down regulation of 5-HT2 receptors but had no effect on the
number of D2 receptors. Compound 45 is currently undergoing Æ

MEDLINE ON STN 18787 MEDLINE PubMed ID: 7531352 95148787 ANSWER 8 OF 14 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

clinical evaluation.

Regional bright distribution of risperidone and its active metabolite 9-hydroxy-risperidone in the rat.
van Beijsterveldt LE; Geerts R J; Leysen J E; Megens A A; van den Eynde H M; Meuldermans W E; Heykants J J Department of Fury Metabolism and Pharmacokinetics, Janssen Research Foundation, Beerse, Belgium.
Psychopharmacology, (1994 Feb) Vol. 114, No. 1, pp. 53-62. Journal code: 760022: ISSN: 0033-3158.
GERMANY: Genmany, Federal Republic of Journal; Article; (JOURNAL ARTICLE) CORPORATE SOURCE: AUTHOR:

Priority Journals 199503 English FILE SEGMENT: ENTRY MONTH: ENTRY DATE: DOCUMENT TYPE: PUB. COUNTRY: LANGUAGE:

SOURCE:

AB

EMTRY MONTH:

Entered STN: 16 Mar 1995

Last Updated on STN: 29 Jan 1996

Entered Mediline: 8 Mar 1995

Risperidone is a new benzisoxazole antipsychotic.
9-Hydroxy-risperidone is the major plasma metabolite of risperidone. The pharmacological properties of 9-Hydroxy-risperidone were studied and appeared to be comparable to those of risperidone itself, both in respect of the profile of interactions with various neurotransmitters and its potency, activity, and onset and duration of action. The absorption, plasma levels and regional brain distribution of action. The absorption, plasma levels and regional brain distribution of crisperidone, metabolically formed 9-hydroxy-risperidone and total radioactivity were studied in the male Wistar rat after single subcuraneous administration of radiolabelled risperidone at 0.02 mg/kg. Concentrations were determined by HPC separation, and off-line determination of the radioactivity with liquid scintillation counting. Risperidone was well absorbed. Maximum plasma concentrations were reached at 0.5-1 h after subcutaneous administration. Plasma concentrations of 9-hydroxy-risperidone were higher than those of risperidone from 2h after dosing. In plasma, the apparent elimination half-life of risperidone was 1.0 h, and mean residence times were 1.5 h for risperidone and 2.5 h for its 9-hydroxy metabolite. Plasma levels of the radioactivity increased dose

proportionally between 0.02 and 1.3 mg/kg. Risperidone was rapidly distributed to brain tissues. The elimination of the radioactivity from the frontal cortex and striatum—brain regions with high concentrations of 5-HTZ or dopamine—DZ receptors—became more gradual with decreasing dose levels. After a subcutaneous dose of 0.02 mg/kg, the EDSO for central 5-HTZ antegonism in male rate, half-lives in frontal cortex and striatum were 3-4 hor risperidone, whereas mean residence times were 4-6 h for risperidone and about 12 h for 9-hydroxy-risperidone. These half-lives and mean residence times were 5-5 times longer than in plasma and in cerebellum, a region with very low concentrations of 5-HTZ and DZ receptors. Frontal cortex and striatum to plasma concentration ratios increased during the experiment. The distribution of frontal cortex and striatum, was more limited than that of risperidone itself. This indicated that 9-hydroxy-risperidone contributes to the in vivo activity of risperidone, but to a smaller extent than would be predicted from plasma levels. AUCs of both active compounds in frontal cortex and striatum were 10-18 times higher than those in cerebellum. No retention of metabolites other than 9-hydroxy-risperidone was observed in any of the brain regions investigated.

Risperidone, anieteru metuline; is a novel antiperu metuline; is a novel antipsychotic agent that has an extremely strong binding affinity for antipsychotic agent that has an extremely strong binding affinity for dopamine berechors, and a high affinity for alpha 1- and alpha 2-adrenergic receptors; and histamine H1 receptors. Its affinity for secretors is approximately 200 times greater than that of haloperidol, and its dopamine antagonistic potency is comparable to that of haloperidol, and its dopamine antagonistic potency is comparable to that parametologic activity, and thus the parent compound and metabolite form the active antipsychotic modety. Clinical trials demonstrate that risperidone is an effective antipsychotic agent that improves negative as well as positive symptoms of schizophrenia. At recommended dosages, the frequency of extrapyramidal side effects is no greater than that seen with placebo. The drug appears to be an advance in the treatment of psychoses. Pharmacotherapy, (1994 May-Jun) Vol. 14, No. 3, pp. 253-65. College of Pharmacy, University of Oklahoma, Oklahoma City $73190.\,$ Journal code: 8111305. ISSN: 0277-0008. (JOURNAL ARTICLE) Last Updated on STN: 29 Jan 1996 Entered Medline: 21 Nov 1994 Entered STN: 22 Dec 1994 General Review; (REVIEW) MEDLINE (COMPARATIVE STUDY) 95023318 MEDLIN PubMed ID: 7524043 Risperidone. MEDLINE on STN Journal; Article; Priority Journals United States Cohen L J Ref: 62 ANSWER 9 OF 14 ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: LANGUAGE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: PUB. COUNTRY: DOCUMENT TYPE: SOURCE: AB

ACCESSION NUMBER: 94334885 MEDLINE
DOCUMENT NUMBER: Pubmed ID: 7914556

TITLE: Benzisoxazole- and benzisothiazole-3-carboxamides
as potential atypical antipsychotic agents.

AUTHOR: Karman L L, Rochr J G; Burgher K L; Conway P G; Hartman H B; Karman L L, Rochr J G; Woods A R.

CORPORATE SOURCE: Pharmaceuticals, Inc., Somerville, New Jersey 08376.

Bridged gamma-carbolines and derivatives possessing selective and combined affinity for 5-HT2 and D2

PubMed ID: 8496917

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

93267591

Last Updated on STN: 3 Feb 1997

Entered Medline: 26 Nov 1993

Entered Several Nesubstituted 5,6,7,8,9,10-hexahydro-7,10
iminocyclohept [b] indoles were obtained by the resolution of 2-fluoro-5,6,7,8,9,10-hexahydro-7,10-iminocyclohept [b] indole and 5,6,7,8,9,10-hexahydro-7,10-iminocyclohept [b] indole and affinity for the 5-HZ and DZ receptors. Those compounds possessing the 7S,10R stereochemistry were consistently recognized by the 5-HZ and DZ receptors as the eutomer. 2-Fluoro-11-(4-(4-fluorophenyl)-5,6,7,8,9,10-hexahydro-51,10 K- iminocyclohept[b] indole [(7S,10R)-8] had the highest affinity for the 5-HTZ receptor (Ki = 0.80 nM), while its distomer (7R,10S)-8 was the most selective member of this class of bridged gamma-carbolines (DZ LHTZ ECCEPTOR TOTORING) and the highest affinity for the selective member of this class of bridged gamma-carbolines (DZ LHTZ ECCEPTOR TOTORING) and the highest affinity for the selective member of this class of bridged gamma-carbolines (DZ LHTZ ECCEPTOR TOTORING) and the highest affinity for the selective member of this class of bridged gamma-carbolines (DZ LHTZ ECCEPTOR TOTORING) and the highest affinity for the company of the proper parameter and the highest affinity for the selective member of this class of bridged gamma-carbolines (DZ LHTZ ECCEPTOR TOTORING) and the highest affinity for the company of the proper parameter and the highest affinity for the selective member of this class of bridged gamma-carbolines (DZ LHTZ ECCEPTOR TOTORING) and the highest affinity for the company of the proper parameter and the highest affinity for the company of the parameter and the par Examination of the D2/5-HT2 affinity ratios of resolved 5.6.7.8.9.10-hexahydro-7.10-iminocyclohept[blindoles: an enantioselective approach toward the design of potential atypical antipsychotics. Mewshaw R E; Abreu M E; Silverman L S; Mathew R M; Tiffany C W; Balley M A; Karbon E W; Ferkany J W; Kaiser C Department of Medicinal Chemistry, Scios Nova Inc., Baltimore, Maryland 21224-6522.

2) Upp. 3073-6.

2) Upp. 3073-6.

5) United States

Journal; Article; (JOURNAL ARTICLE) The paying the property of the paying the pa of medicinal chemistry, (1994 Jul 22) Vol. 37, No. /5-HT2 = 562). Incorporation of a benzoyl or isosteric benzisoxazole moiety tethered by a four-carbon spacer to a bridged gamma-carboline nucleus, possessing the 75,10R absolute configuration, produced high affinity ligands for the 5-HT2 and D2 receptors. Journal of medicinal chemistry, (1994 J 15, pp. 2308-14. Journal code: 9716531. ISSN: 0022-2623. Journal; Article; (JOURNAL ARTICLE) Entered STN: 17 Jan 1994 MEDLINE on STN 6936 MEDLINE MEDLINE on STN 94046936 MEDLIN PubMed ID: 7901415 Priority Journals 199311 Priority Journals 199409 United States English L15 ANSWER 11 OF 14
ACCESSION NUMBER: 94
DOCUMENT NUMBER: Pul
TITLE: Ex. ANSWER 12 OF 14 CORPORATE SOURCE: DOCUMENT TYPE: LANGUAGE: DOCUMENT TYPE: LANGUAGE: FILE SEGMENT: PUB. COUNTRY: FILE SEGMENT: COUNTRY: ENTRY MONTH: ENTRY DATE: ENTRY MONTH: ENTRY DATE: AUTHOR: SOURCE: PUB. AB AB

receptors. Mewshaw R E; Silverman L S; Mathew R M; Kaiser C; Sherrill R G; Cheng M; Tiffany C W; Karbon E W; Bailey M A; Borosky S A; + Scios Nova Inc., Baltimore, Maryland 21224-6522. Journal of medicinal chemistry, (1993 May 14) Vol. 36, No. 10, pp. 1488-95. Journal code: 9716531. ISSN: 0022-2623. Journal, Article; (JOURNAL ARTICLE) English Entered STN: 2 Jul 1993 Priority Journals 199306 United States CORPORATE SOURCE: DOCUMENT TYPE: LANGUAGE: FILE SEGMENT: PUB. COUNTRY: ENTRY MONTH: ENTRY DATE:

Last Updated on STN: 2 Jul 1993

AB A series of 5,67,78,910-beakahydro-7,10-iminocyclohept[b]indoles and 6,7,8,9,10,11-hexahydro-7,11-iminocyclohept[b]indoles and 6,7,8,9,10,11-hexahydro-7,11-iminocyclohept[b]indoles and Structural modifications of the lead compound, 11-[4-(4-Structural modifications of the lead to structural modifications of the lead to structural modification of the functionality necessary for high affinity at serotonin 5-HT2 and dopamine D2 receptors in ligand binding studies. The indole ring, as well as the benzoyl or isosteric benzisoxazole motety, were essential for high affinity. Variations of the length of the side chains resulted in ligands having either selective affinity for the 5-HT2 receptor or a combination of 5-HT2 and D2 affinity. In vivo binding studies were performed on selected members in this series. The most potent member, 2-fluoro-11-[4-(4-fluorobenzoyl)buty1]-5,6,7,8,9,10-hexahydro-7,10-iminocyclohept[b]indole (36) had an EDSO of < 1 mg/kg at the 5-HT2 and D2 receptors following oral administration. AB

9115768 MEDLINE
PubMed ID: 217339
[Development of new antipsychotic drugs].
El desarcollo de nuevas drogas antipsicoticas.
El desarcollo de nuevas drogas antipsicoticas.
Vanden Bussehe G; Gelders Y G; Heylen S L
Clinical Research and Development Department, Janssen
Research Foundation, Beerse, Belgica.
Acra psiquierica y psicologica de America latina, (1990
Ann-Jun) Vol. 36, No. 1-2, pp. 13-25.
Journal code: 0373060. ISSN: 0001-6896. Argentina (ENGLISH ABSTRACT) Journal; Article; (JOURNAL ARTICLE) MEDLINE on STN Priority Journals 199104 Spanish ANSWER 13 OF 14 ACCESSION NUMBER: CORPORATE SOURCE: DOCUMENT NUMBER: PUB. COUNTRY: DOCUMENT TYPE: FILE SEGMENT: LANGUAGE: SOURCE: AUTHOR:

Y DATE: Entered STN: 28 Apr 1991
Last Updated on STN: 28 Apr 1991
Entered Medline: 8 Apr 1991
As far as schizophrenia is concerned, therapeutical effects of neuroleptics based on brain-located dopamine receptor blockers are taken for granted. It is also admitted, however, that classical neuroleptics have inconveniences, namely: Their relative lack of effect on negative symptoms, and their liability to induce extrapyramidal symptoms (EPS). Pipamperone-based clinical studies evidenced that an antagonist combining serotonin 5-HT2, and dopamine D2 was successful in the treatment of schizophrenia--which could be clearly observed in (a) anti-autistic effects, (b) regulating disrupted sleep-wake rhythms, and (c) a lesser tendency to EPS. Setoperone-based studies--a compound with a comparable pharmacological profile--confirmed the above observations. Until, however, the synthesis of ritanserin--a specific, and selective antagonistic receptor--was not achieved, no exact implication of 5-HT2 AB

antagonist in psychopharmacological treatments of schizophrenia could be explored further. Indeed, double-blind trials evidenced a remarkable improvement in negative as well as extrapyramidal symptoms. Since a monotherapy appeared as undeniably called for in the treatment of schizophrenia, the next logical step to be taken was selecting a compound with a central antagonism comparable to ritanserin's, and a central D2 antagonism comparable to haloperidol's. Among a chemical range of benzisoxazole derivatives, risperidone was thus selected. The first double-blind trials on chronic schizophrenic patients seem indeed to confirm that this substance is likely to get over the above mentioned inconveniences, so typical of classical neuroleptics.

ANSWER 14 OF 14

Pharmacology of risperidone (R 64 766), a new antipsychotic with serotonin-S2 and dopamine-D2 antagonistic The Journal of pharmacology and experimental therapeutics, (1988 Feb) Vol. 244, No. 2, pp. 685-93. Journal code: 0376362. ISSN: 0022-3565. Figure 7. Schellekens K H; Awouters F; Schellekens K H; Megens A A; Meert T F Department of Pharmacology, Janssen Research Foundation, DATE: Entered STN: 8 Mar 1990
Last Updated on STN: 6 Feb 1995
Entered Medline: 12 Apr 1988
Comparative studies of the benzisoxazole derivative risperidone Journal; Article; (JOURNAL ARTICLE) MEDLINE ON STN PubMed ID: 2450200 Priority Journals Beerse, Belgium. United States properties. 88155393 English ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: LANGUAGE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: DOCUMENT TYPE: SOURCE: AUTHOR:

And comparative studies of the Denizional Carlo AB

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SINCE FILE COST IN U.S. DOLLARS FULL ESTIMATED COST

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Welcome Banner and News Items
For general information regarding STN implementation of IPC
X.25 communication option no longer available
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NOVEMBER 10 CURRENT WINDOMS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
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ENTRY
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1099 L2 AND ANTAGON?
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1855 5-HT1B
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(NEW OR NEWS) 67 L3 AND NEW

=> s 14 and 2003/py 569314 2003/PY

(20030000-20039999/PY) 4 L4 AND 2003/PY

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MEDLINE on STN PubMed ID: 15320857 L5 ANSWER 1 OF 4 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

Migraine: pathophysiology, pharmacology, treatment and

AUTHOR:

future trends...
Villalon Carlos M; Centurion David; Valdivia Luis Felipe;
de Vries Peter; Saxena Pramod R.
Departamento de Farmacobiologia, CINVESTAV-IPN, Czda. de
los Tenorios 235, Col. Granjas Coapa, Deleg Tlaipan, CP
14330, Mexico DF, Mexico... carlos villalon@infosel.net.mx
Current vascular pharmacology, (2003 Mar) Vol. 1,
No. 1, pp. 71-84. Ref: 110
United Arab Emirates CORPORATE SOURCE:

PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) Historical DOCUMENT TYPE:

General Review; (REVIEW) Priority Journals 200412 English FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

ENTRY DATE:

Entered STN: 25 Aug 2004

Last Updated on STN: 19 Dec 2004

Last Updated on STN: 19 Dec 2004

Bastered Mediline: 1 Dec 2004

Build controversial whether migraine is primarily a vascular or a still controversy, the leavels of still controversy, the leavels of seriological dystinction. Irrespective of this controversy, the leavels of serotonin (5-hydroxytryptamine; 5-HT), a vasconstrictor and a central neurotoransmitter. seem to decrease during migraine (with associated carotid vasodilatation) whereas an i.v. infusion of 5-HT can abort migraine agents sinvariably produce vasconstriction in the external carotid circulation. The last decade has witnessed the advent of sumatriptan and second generation triptans (e.g. zolmitriptan, trizatiptan, nastriptan), which belong to a new class of drugs, the 5-HTIB/ID/IF receptor agonists. Compared to sumatriptan, nastriptan), which belong to a new class of drugs, the 5-HTIB/ID/IF receptor agonists. Compared to sumatriptan, and longer plasm half-like. In line with the vascular and neurogenic theories of migraine, all-litiptans produce selective carotid vasoconstriction (via 5-HTIB receptors) and presynaptic inhibition of the trigaminovascular inflammatory responses implicated in migraine (via 5-HTIB receptors). Moreover, selective agonists at 5-HTID (PNU-142633) and 5-HTIF receptors). Moreover, selective of migraine, whilst LY34864 did show some efficacy when used in doses which interact with 5-HTIB receptors. Finally, although the triptans are effective antimigraine agents producing selective cranial vasoconstriction, efforts are being made to develop other effective antimigraine alternatives at CGRP receptors, antegonists at 5-HTI receptors, inhibitors of nitric oxide

biosynthesis, etc). These alternatives will hopefully lead to fewer side effects.

MEDLINE MEDLINE on STN 2003200109 MEI L5 ANSWER 2 OF 4 ACCESSION NUMBER: DOCUMENT NUMBER:

PubMed ID: 1264/890 Role of extracellular serotonin levels in the effect of 5-HTIB receptor blockade.

de Groote Lotte; Klompmakers Andre A; Olivier Berend;

AUTHOR:

CORPORATE SOURCE:

Mestenberg Herman G M
Department of Psychiatry, Rudolf Magnus Institute of
Neuroscience, University Medical Center Utrecht,
Heidelberglaan 100, 3584 CX Utrecht, The Netherlands.
Psychopharmacology, (2003 May) vol. 167, No. 2,
pp. 153-8. Electronic Publication: 2003-03-18.
Journal code: 7608025. ISSN: 0033-3158.
Germany, Germany, Federal Republic of
Journal, Article; (JOURNAL ARTICLE)

PUB. COUNTRY: DOCUMENT TYPE:

SOURCE:

Priority Journals English 200310 FILE SEGMENT:

ENTRY MONTH: ENTRY DATE: LANGUAGE:

EMPRY DATE: Entered STN: 30 Apr 2003

Entered Wedline: 14 Oct 2003

Brequiated by 5-HT(1B) at serotonergic nerve terminals is

requiated by 5-HT(1B) at serotonergic nerve terminals is

-HT are augmented by 5-HT(1B) at secondaris studies have reported that

shift are augmented by 5-HT(1B) receptor antagonists, whereas

administration of these antagonists alone do not enhance 5-HT

levels. It has been suggested that 5-HT(1B) receptors have low basal

endogenous activity and therefore elevated endogenous 5-HT levels are

needed to elicit an effect of 5-HT(1B) receptor antagonists. To

test this hypothesis, different strategies were used to enhance 5-HT

levels in the rat frontal correx to assess the effects of locally applied

NS-181, a new selective 5-HT(1B) receptor antagonist.

Blockade of 5-HT(1B) receptors with NS-181 dose dependently augmented

5-HT levels when 5-HT levels were enhanced by a SSR. No additional

effect of NS-181 on 5-HT output was found which the monoamine oxidase inhibitor pargyline. In the presence of fluvoxamine, the increased 5-HT release evoked by KCl depolarization was augmented by NS-181, supporting the idea that blockade of 5-HT(1B) receptor antagonist the effect of 5-HT(1B) receptor blockade. In conclusion, the results provide circumstantial evidence that reuprake inhibition is required to detect any effect of 5-HT(1B) receptor.

reupcake inhibition is required to detect any effect of 5-HT(1B) receptor.

antagonist on 5-HT levels by in vivo microdialysis. ΑB

LS ANSWER 3 OF 4
ACCESSION NUMBER: 2
DOCUMENT NUMBER: P
TITLE: A

MEDLINE on STN
2003132897 MEDLINE
Pubbed 1D: 12595948
An evaluation of the effect of NAS-181, a new
selective 5-HT(lB) receptor antegonist, on
extracellular 5-HT levels in rat frontal cortex.
de Groote Lotte; Klompmakers Andre A, Olivier Berend;

Mestenberg Herman G M
Department of Expendiatry, Rudolf Magnus Institute of Neuroscience, University Medical Center Utrecht, Heidelbergiaan 100, 3584 Cx, Utrecht, The Netherlands. Naunyn-Schmidedbergis archives of pharmacology, (2003 Feb) Vol. 367, No. 2, pp. 89-94. Electronic Publication: 2003-01-24.
Journal code: 0326564. ISSN: 0028-1298. CORPORATE SOURCE:

PUB. COUNTRY:

aniagymisalz properties or was-101 (IR)-17)-Z-II[13]
(Morpholinomethyl)-ZH-chromen-8-yl]oxy|methyl] morpholine methane
sulfonate), a mew salective aniagonist for the rodent
sulfonate), are we determined by using an agonist-induced decrease of
extracellular 5-HT. The 5-HT(1B) receptor agonist CP93129 (0.030.3
microW) applied by reversed microdialysis, dose-dependently reduced 5-HT
levels in rat frontal cortex. The suppressant effect of CP93129 (0.1
microW) was smaller in the presence of fluvoxamine (3-10 microM), a 5-HT
reuptake inhibitor. The effects of NAS-181 on CP93129 were compared with
GR127935, a mixed 5-HT (1B/1D) receptor antagonist, and
sB224289, a 5-HT(1B) receptor antagonist. Boft in the presence
and absence of fluvoxamine, the suppressant effect of CP93129 on
extracellular 5-HT was attenuated by NAS-181 (1 microM) and GR127935 (10
microW), but not by SB224289 (1 microM). In the absence of fluvoxamine,
GR127935, SB224289 and NAS-181 reduced 5-HT levels, suggesting partial
agonistic properties of these compounds. In conclusion, the results show
that NAS-181 is a potent 5-HT(1B) receptor antagonist. BACKGROUND: It has been proposed that serotonin participates in the central antinociceptive effect of acetaminophen. The serotonin activity in the brainstem is primarily under the control of 5-HTIA somatodendritic receptors, although some data also suggest the involvement of 5- HTIA seceptors. In the presence of serotonin, the blockade of 5-HTIAD receptors at the level of the raphe nuclei leads to an increase in serotonin release in terminal areas, thus improving serotonin functions. This study examines the involvement of 5-HTIADB receptors in the antinociceptive effect of acetaminophen in mice. METHODS: The effects of acetaminophen in mice. METHODS: The effects of acetaminophen in mice. WETHODS: The effects of acetaminophen in mice. Barghoust subcutaneous and SB 216641 [0.25-0.8 mg/kg subcutaneous] not 5-HTIAD and SB 216641 [0.25-0.8 mg/kg subcutaneous] of 5-HTIAD and between the section of participations of an edge-mined in the hot-plate test in mice. RESULTS: Acetaminophen (300-800 mg/kg) showed a dose-dependent antinociceptive effect in the hot-plate test in mice. WAY MEDLINE on STN
200309419 MEDLINE
PUD309419 MEDLINE
The Moded ID: 12606921
The role of 5-HT1A/B autoreceptors in the antinociceptive effect of systemic administration of acetaminophen.
Roca-Vinardell Aranazazu, Orteqa-Alvaro Antonio;
Gibert-Rabola Juan; Mico Juan A
Department of Neuroscience, Faculty of Medicine, University Last Updated on STN: 24 Dec 2003

Entered Medline: 23 Dec 2003

In the mammalian brain 5-HT(1B) receptors are present as autoreceptors regulating the release of serotonin (5-HT) by inhibitory feedback. The antagonistic properties of NAS-181 ((R)-(+)-2-[[[3-]]) Abridged Index Medicus Journals; Priority Journals 200303 of Cadiz, Spain. Anesthesiology, (2003 Mar) Vol. 98, No. 3, pp. Journal code: 1300217. ISSN: 0003-3022. Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) (COMPARATIVE STUDY)
Journal; Article; (JOURNAL ARTICLE) Entered STN: 28 Feb 2003 Last Updated on STN: 28 Mar 2003 Entered Medline: 27 Mar 2003 Entered STN: 22 Mar 2003 Priority Journals 200312 United States English L5 ANSWER 4 OF 4 ACCESSION NUMBER: CORPORATE SOURCE: DOCUMENT NUMBER: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: PUB. COUNTRY: DOCUMENT TYPE: DOCUMENT TYPE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: LANGUAGE: LANGUAGE: AUTHOR: SOURCE: ΑB ΑB

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the antinociceptive effect of 600 mg/kg acetaminophen, but this increase an entinociceptive effect of 600 mg/kg acetaminophen, but this increase was not dose related. Conversely, 8-OH-DRAT (0.25-1 mg/kg; 5-HTIA agonist) decreased the antinociceptive effect of acetaminophen. SB 216641 (0.25-8 mg/kg; 5-HTIB antagonist) induced a dose-related increase in the antinociceptive effect of acetaminophen, and cose-related increase in the antinociceptive effect of acetaminophen, and decreased the antinociceptive effect of acetaminophen. CONCLUSIONS: These results suggest that the combination of acetaminophen with compounds having 5-HTIB antagonist

properties could be a new strategy to improve the analgesia of acetaminophen, thanks to its mild serotonergic properties.

ANSWER 1 OF 1 MEDLINE on STN

There is increasing evidence that the aetiology of obsessive-compulsive
disorder (OCD) has a marked genetic component, although the precise
mechanism of inheritance is unclear. Clinical and pharmacological studies
have implicated the serotonergic and dopaminergic systems in disease
pathogenesis. This study investigated the role of attractive candidate
genes in the serotonergic and dopaminergic pathways in the development of
CCD. The distribution of selected polymorphic variants in the serotonin
receptor type 2A and 1Dbeta (5-HT(1Dbeta)), dopamine transporter
(DAT), dopamine receptor type 4 (DRD4) and monoamine-oxidase A (MAO-A)
genes were analysed in 71 CCD cases and 129 control individuals in the
genetically homogeneous Afrikaner population, by means of case-control
association studies. Although no statistically significant genotypic or
allelic associations were detected, the data yielded interesting
preliminary results that warrant further discussion and investigation. Investigating the role of dopaminergic and serotonergic candidate genes in European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology, (2003 Mar) Vol. 13, No. 2, pp. 93-8. Journal code: 9111390. ISSN: 0924-977X. A; Corfield Valerie A; Stein Hemmings Sian M J; Kinnear Craig J; Niehaus Dana J H; Moolman-Smook Johanna C; Lochner Christine; Knowles James A; Corfield Valerie A; => s d2 and (5htlb or 5ht-lb or 5-htlb) and (5ht2a or 5ht2a) 26201 D2 137 5H11B 2604 5H 13798 1B 55 5H7-1B MRC/US Centre for Molecular and Cellular Biology, University of Stellenbosch, P.O. Box 19063, 7505, Tygerberg, South Africa.. Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) Entered STN: 6 Apr 2003 Last Updated on STN: 13 May 2003 Entered Medline: 12 May 2003 obsessive-compulsive disorder. 2352638 5 2592 HT2A 2579 5-HT2A (5(W)HT2A) 2352638 5 (311 (17.2) 1858 HT1B 1855 5-HT1B (5 W) HT1B) 179 5HT2A 2604 5HT 23242 2A 78 5HT-2A (5HT (W) 1B) (COMPARATIVE STUDY) PubMed ID: 12650952 Priority Journals smjh@sun.ac.za Netherlands English d abs S î L7 AB L7 AN TI ΑO cs 댗 ED EM

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20001910 GM. ADDING. PubMed ID. 16820177 Countitative mapping shows that serotonin rather than dopamine receptor mRNA expressions are affected after respected intermittent administration of MDMA in rat brain. Kindlundh-Hogberg Anna M S; Svenningsson Per; Schioth Helgi
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SHT-2A OR 5-HT2

MEDLINE on STN

ANSWER 1 OF 1

MEDLINE

ΑB

Ecstasy, (+/-)-3.4-methylenedioxy-metampheramine (MDMA), is a popular recreational drug among young people. The present study aims to mimic MDMA intake among adolescents at dance clubs, taking repeated doses in the same evening on an intermittent basis. Male Spraque-Dawley rats received either 3x1 or 3x5 mg/kg/day (3 h apart) every seventh day during 4 weeks. We used real-Lime RT-PECK to determine the gene expression of serotonin 5HTA, 5HTAB, 5HT2A, 5HT2A, 5HT2A, 18T2A, 18T dala. Dopamine receptor In conclusion, this study Last Updated on STN: 7 Nov 2006 Entered Medline: 6 Nov 2006

ANSWER 2 OF 15 L8 ANSWER 2 OF 1 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

mRNAs were only affected in the hypothalamus. In conclusion, this study provides evidence for a unique implication of serotonin rather than administration. We therefore suggest that serotonin regulated functions also primarily underlie repeated MDMA intake at rave parties.

AUTHOR:

CORPORATE SOURCE:

15 MEDLINE on STN

2003157926 MEDLINE
PubMed 1D: 12650952
Investigating the role of dopaminergic and serotonergic
candidate genes in obsessive-compulsive disorder.
Hemmings Sian M J; Kinnear Craig J; Niehaus Dana J H;
Moolman-Smook Johanna C; Lochner Christine; Knowles James
A; Corfield Valerie A; Stein Dan J

I; MRC/US Centre for Molecular and Cellular Biology,
University of Stellenbosch, P.O. Box 1963, 7505,
Tygerberg, South Africa. smjh@sun.ac.za
European neuropsychopharmacology; ithe journal of the
European College of Neuropsychopharmacology, (2003 Mar)
Vol. 13, No. 2, pp. 93-8.
Journal code: 9111390. ISSN: 0924-977X. SOURCE: ,

(COMPARATIVE STUDY) Netherlands PUB. COUNTRY: DOCUMENT TYPE:

Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) Priority Journals 200305 FILE SEGMENT: ENTRY MONTH: ENTRY DATE: LANGUAGE:

DATE: Entered STN: 6 Apr 2003
Last Updated on STN: 13 May 2003
Entered Medline: 12 May 2003
There is increasing evidence that the aetiology of obsessive-compulsive ΑB

disorder (OCD) has a marked genetic component, although the precise mechanism of inheritance is unclear. Clinical and pharmacological studies have implicated the serotonergic and opparainergic systems in disease pathogenesis. This study investigated the role of attractive candidate genes in the serotonergic and dopaminergic pathways in the development of OCD. The distribution of selected polymorphic variants in the serotonin receptor type 4 (and 10beta (5-HT(2A), 5-HT(10beta)), dopamine transporter (DAT), dopamine receptor type 4 (BR04) and monoamine-oxidase A (MAO-A) genes were analysed in 71 OCD cases and 129 control individuals in the genetically homogeneous Afrikaner population, by means of case-control association studies. Although no statistically significant genotypic or allelic associations were detected, the data yielded interesting preliminary results that warrant further discussion and investigation.

MEDLINE MEDLINE on STN 2001300306 MEDI ANSWER 3 OF 15 L8 ANSWER 3 OF 1 ACCESSION NUMBER:

EMPRY MONTH:

Entered STN: 4 Jun 2001

Bast Updated on STN: 4 Jun 2001

Bast Strain Possgradure Studies in Pharmacology, School of Pharmacy, University of Bradford, West Yorkshire, UK..

Jalex w wilsondsbphracom

Journal of psychopharmacology (Oxford, England), (2000)

Vol. 14, No. 4, pp. 340-6.

United States

Journal; Article; (JOURNAL ARTICLE) Manipulation of operant responding for an ethanol-paired conditioned stimulus in the rat by pharmacological alteration of the serotonergic system. Wilson A W. Costall B: Neill J C of 5-HTIA and 5-HTIB receptor sumiyes, in moverno. of the conditioned or secondary reinforcing properties of ethanol. MEDLINE on STN 170940 MEDLINE PubMed ID: 11198050 Priority Journals 200105 2001170940 English AUTHOR: CORPORATE SOURCE: DOCUMENT NUMBER: PUB. COUNTRY: DOCUMENT TYPE: LANGUAGE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: SOURCE: TITLE: ΑB

Receptor-mediated regulation of serotonin output in the rat dorsal raphe nucleus: effects of risperidone.
Hertel P. Lindblom W. Nomikos G G; Svensson T H
Department of Physiology and Pharmacology, Karolinska
Institutet, Stockolm, Sweden.
Psychopharmacology, (2001 Jan) Vol. 153, No. 3, pp. 307-14.
Journal code: 7608025, ISSN: 0033-3158. PubMed ID: 11271402 L8 ANSWER 4 OF 15 ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: SOURCE:

Germany: Germany, Federal Republic of Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) DOCUMENT TYPE: PUB. COUNTRY:

Entered STN: 21 May 2001 Priority Journals 200105 English FILE SEGMENT: ENTRY MONTH: ENTRY DATE: LANGUAGE:

AB

Dast Updated on STN: 21 May 2001

Entered Medilne: 17 May 2001

raphe nucles (DNN) as well as to examine the potential ability of the antipsychotic drug risperidone to interfere with these mechanisms.

METHODS AND RESULTS: By using microdialysis in freely moving racs, it was found that administration of the alpha2 adrenoceptor antagonist idazoxan (0.25 mg/kg, SC), the 5-HTIB/D receptor antagonist GR 127,935 or 127,935 (1.0 mg/kg, SC) and risperidone (0.6 or 2.0 mg/kg, SC) increased 5-HT output in the DRN. Local DRN perfusion with GR 127,935 or risperidone via reversed dialysis (100 or 10-100 microM, respectively) enhanced 5-HT efflux in this area, whereas idazoxan (10-100 microM) failed to affect this parameter: Both systemic administration and reversed DRN dialysis of the DZ/3 and 5-HTZA receptor and mistration of microM). Respectively, were without effect.

(10 mg/kg, SC or 10-100 microM), respectively, were without effect.

Intraraphe dialysis of the 5-HTIB/D receptor agonist

CP 135,807 (0.2 microM) decreased the efflux of 5-HT in the DRN, an effect with as antagonized by co-administration of GR 127,935 or risperidone (10 and 3.3 microM, respectively). By using single-cell recording, it was found that administration of GR 127,935 or risperidone (10 and 3.3 microM, respectively). By using single-cell recording, it was found that administration of GR 127,935 or suggest a requistory role of local 5-HTIB/D receptors

on 5-HT efflux as well as cell fixing in the DRN and indicate that risperidone may interfere with the regulation of 5-HT availability in this area primarily via blockade of 5-HTID receptors.

2-[4-[3-(4-ary1/heteroary1-1-piperaziny1)propoxy]pheny1]-2H-benzotriazoles and their N-oxides as ligands for serotonin and dopamine receptors.
Sparatore A; Sparatore F
Sparatore A; Googan M; Cagnotto A; Sparatore F
Listituto di Chimica Farmaceutica e Tossicologica,
Universita di Milano, Italy. sparator@imiucca.csi.unimi.it
Farmaco (Societe chimica italiana : 1989), (1999 Jun 30)
Vol. 54, No. 6, pp. 402-10.
Journal code: 8912641. ISSN: 0014-827X. Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) MEDLINE ON STN
MEDLINE PubMed ID: 10443019 Priority Journals 199911 1999371966 English Italy L8 ANSWER 5 OF 15 ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: DOCUMENT TYPE: PUB. COUNTRY: LANGUAGE: SOURCE:

noteworthy. For 2-(4-[3-[4-(2-methoxyphenyl)-1-piperazinyl]propoxylphenyl]-2H-benzotr iazole-l-oxide (4b), the binding constants (K1) were 11.9 (5-HTA) and 10.5 nM (D3). In a general pharmacological screening, the 2-[4-(3-(4-phenyl-1-piperazinyl)spropxylphenyl)-2H-benzotriazole (3a) exhibited only very weak activities, with the exception of protecting mice from cyanide-induced PATE: Entered STN: 11 Jan 2000

Last Updated on STN: 11 Jan 2000

Last Updated on STN: 11 Jan 2000

A small set of 2-{4-12} -{4-22} -{ hypoxia. ΑB

AB I. The mechanism underlying the anticataleptic properties of the atypical neuroleptic agent, clozapine, has been investigated in the rat. 2.The close tructural analogues of clozapine, loxapine (0.1 mg kg(-1) s.c.) and close structural analogues of clozapine, loxapine (0.1 mg kg(-1) s.c.) and lose-clozapine (1 and 3 mg kg(-1) s.c.) induced catalepsy in rats. In contrast, clozapine and the regio-isomer of loxapine, iso-loxapine (up to 10 mg kg(-1) s.c.) did not produce catalepsy, but at a dose of 1 mg kg(-1) s.c.). And not produce catalepsy, but at a dose of 1 mg kg(-1) s.c.). 3 Radioligand binding assays showed that cataleptogenic potential was most clearly predicted by the D2/5-HT1A, D2/5-HT1B/1D and D2/2|alpha2-receptor affinity (kD) ratios: i.e. 30-100-fiol higher ratios were calculated for loxapine and iso-clozapine, whereas the ratios were calculated for loxapine and iso-clozapine, whereas the ratios were calculated for loxapine and iso-clozapine, whereas the ratios were calculated for loxapine and iso-cloxapine. The ratios of affinities for D2 to 5-staleptic and moracataleptic compounds 4. Co-treatment with the alpha2-darenoceptor antagonists, yohimbine (1-10 mg kg(-1) s.c.), RN 821002 (1-10 mg kg(-1) s.c.) and mg kg(-1) s.c.), RN 821002 (1-10 mg kg(-1) s.c.) also dose-dependently inhibited the cataleptic response to loxapine (0.3 mg kg(-1)). Yohimbine (1-10 mg kg(-1)) altered the cataleptic response to the D1 receptor antagonist, bether seponse to the StartAR receptor antagonist, MDL 100,181 (3) mg kg(-1) s.c.), G. The present date strongly implicate alpha2-adenoceptor blockade in the anticataleptic properties of clozapine and suggest that its lack of extrapyramidal side effects in the clinic may also be a consequence of this property. Switzerland.
British journal of pharmacology, (1998 Aug) Vol. 124, No. 7, pp. 1550-6.
Journal code: 7502536. ISSN: 0007-1188.
ENGLAND: United Kingdom The role of alpha2-adrenoceptor antagonism in the anti-cataleptic properties of the atypical neuroleptic Nervous Systems Research, Novartis Pharma AG, Basel, agent, clozapine, in the rat. Kalkman H O; Neumann V; Hoyer D; Tricklebank M D Journal; Article; (JOURNAL ARTICLE) Entered STN: 6 Jan 1999 Last Updated on STN: 6 Jan 1999 Entered Medline: 13 Nov 1998 MEDLINE on STN 1998389363 MEDLINE PubMed ID: 9723970 Priority Journals 199811 L8 ANSWER 6 OF 15 ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE: DOCUMENT TYPE: LANGUAGE: FILE SEGMENT: PUB. COUNTRY: ENTRY MONTH: ENTRY DATE: SOURCE: AB

1998316312
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CROSS-TEAL BETWEEN S-HYDOXYLYPPTEMENE receptors in a serotonergic cell line. Involvement of arachidonic acid metabolism.
Tournois C; Mutel V; Manivet P; Launay J M; Kellermann O Tournois C; Mutel V; Manivet P; Launay J M; Kellermann O Differenciation Cellulaire, CNRS URA 1960, Institut Pasteur, 25 rue du Dr. Roux, 78724 Paris Cedex 15, France. The Journal of biological chemistry, (1998 Jul 10) Vol. 273, No. 28, pp. 17498-503. Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) MEDLINE ON STN United States ACCESSION NUMBER: CORPORATE SOURCE: DOCUMENT TYPE: PUB. COUNTRY: LANGUAGE: SOURCE:

Priority Journals 199808 FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

Entered STN: 17 Aug 1998

And The study of Singlating cascades and of functional interactions between Entered Medline: 6 Aug 1998

AB The study of Singlating cascades and of functional interactions between S-hydroxytryptamine (5-HY) receptor pathways with heterogenous brain cell populations remains an arduous task. We took advantage of a serotonergic cell line to elucidate cross-tasks between 5-HY receptors and to demonstrate the involvement of two 5-HY2 receptors subtypes in the regulation of 5-HYB/1D function. The inducible IC11 cell sin the bas the unique property of acquiring within 4 days a complete serotonergic phenotype (IC11 * cells), including three 5-HY receptors.

5-HYB/ND and 5-HYB receptors are expressed since day 2 of the serotonergic differentiation while 5-HYB/A medeptors are coupled with the phospholipase AZ (PLA2)-mediated release of arachidonic acid (AA) and that the activation of 5-HYB/A mediated release of arachidonic acid (AA) and that the activation of 5-HYB/A mediated inhibits on 5-HYB/A activation of 5-HYB/A activation at 1011*4 cells of minibition of the 5-HYB/A activation at 1011*4 cells of arachidonic acid (AA) and that the activation of 5-HYB/A and 5-HYB/A place of the 5-HYB/A activation atthough a 5-HYB/A place of the 5-HYB/A activation at this suggests the existence in 1011*4 cells of pathway(s) for this study reveals the antagonistic roles of 5-HYB/A and 5-HYB/A receptors in regulating the function of 5-HYB/A and 5-H AB

MEDLINE on STN 1998230395 MEDLINE PubMed ID: 9570468 ANSWER 8 OF 15 L8 ANSWER 8 OF 1 ACCESSION NUMBER: DOCUMENT NUMBER:

migraine pathogenesis.

TITLE:

Cataleptogenic effect of subtype selective 5-HT receptor anreagonists in the rat.
Kalkman HO, Neumann V; Nozulak J; Tricklebank M D
Nervous System Research, Nozulak Dearma Inc., Basel, Switzerland. CORPORATE SOURCE: AUTHOR:

SOURCE:

European journal of pharmacology, (1998 Feb 19) Vol. 343, No. 2-3, pp. 201-7. Journal code: 1254354. ISSN: 0014-2999. PUB. COUNTRY:

Journal; Article; (JOURNAL ARTICLE) English Netherlands DOCUMENT TYPE: LANGUAGE:

Priority Journals 199806 FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

Entered STN: 18 Jun 1998 Last Updated on STN: 18 Jun 1998 Entered Medline: 9 Jun 1998 ΑB

Assure to the control of the control 5-HT receptor antagonists with selectivity for 5-HTIA WAY-100635 (N-[2-[-(2-methoxypheny1)-1-piperazinyl]ethyl]-N-(2-pyridinyl)cyclohe .xanecarboxamide), 5-HTIB GR 127935

200646A (both at 10 mg/kg, s.c.). Although clozapine displays significant affinity to 5-HTIA, 5-HTIB, 5-HTZA and 5-HTZC receptors, the present results suggest that blockade of these receptors is not responsible for clozapine's anticataleptic activity.

MEDLINE MEDLINE on STN ANSWER 9 OF 15 L8 ANSWER 9 OF 1: ACCESSION NUMBER: DOCUMENT NUMBER:

1998149351 MEDI PubMed ID: 9489707

Serotonin neural adaptations to ontogenetic loss of

dopamine neurons in rat brain.

Sostrzewa R M; Reader T A; Descarries L
Department of Pharmacology, James H. Quillen College of
Medicine, East Tennessee State University, Johnson City, CORPORATE SOURCE:

USA.

SOURCE:

AUTHOR:

Journal of neurochemistry, (1998 Mar) Vol. 70, No. 3, pp. 889-98. Ref: 94 Journal code: 2985190R. ISSN: 0022-3042.

United States

Journal; Article; (JOURNAL ARTICLE) General Review; (REVIEW) PUB. COUNTRY: DOCUMENT TYPE:

LANGUAGE:

Priority Journals 199803 FILE SEGMENT: ENTRY MONTH: ENTRY DATE:

Entered STN: 19 Mar 1998 Last Updated on STN: 19 Mar 1998

Lisat Updated on STN: 19 Mar 1998

Entered Medine: 12 Mar 1998

In rat, the neonatal destruction of injerostriatal dopamine (DA) neurons by intracerebral administration of 6 hydroxydopamine entails dramatic changes in serotonin (5-hydroxydopamine entails dramatic changes in serotonin (5-hydroxydopamine entails dramatic changes in serotonin (5-hydroxydopamine). 5-HT ceceptor subtypes and enhanced neuronal responsiveness to the iontrophoretic application of 5-HT and its 5-HT (18/2C) and 5-HT(2A/2C) receptor agonists, m-chlorophenylpierazine and iodomethoxyphenylaminopropame. The topographical distribution of these changes is consistent with up-regulation and/or increased production and transport of 5-HT18 and 5-HT2A receptor in a recent in situ hybridization study.

It is interesting that this study has also shown that increases in both 5-HT2A binding and mRNA level were abolished by chronic pretreatment with the DA agonists, apomorphine and SKF 3839, suggesting a regulation flat this study has also shown that increases in both 5-HT2A binding and mRNA level were abolished by chronic pretreatment with the DA agonists, apomorphine and SKF 3839, suggesting a regulation of this 5-HT receptor. Did in the expression of this 5-HT receptor binding is increased throughout the DA-denervated and 5-HT-hyperinnervated neostriatum, perhaps due to some posttranscriptional modifications is increased throughout the DA-denervated and 5-HT-hyperinnervated neostriatum, perhaps due to some posttranscriptional modifications alsupersensitivity, although priming is commonly required to unmas a latent DI supersensitivity is induced by systemic treatment with DI and D2 agonists are markedly enhanced in these rats. (behavioral supersensitivity is induced by such particular activity in response to the 5-HT receptor agonist m-chlorophenylphperazine, which is presumably imputable to 5-HT2C receptor agonist. 5-ΑB

MEDLINE on STN PubMed ID: 8867872 97021512 L8 ANSWER 10 OF 15 ACCESSION NUMBER: 9 DOCUMENT NUMBER:

Evidence that m-chlorophenylpiperazine-induced hyperthermia in rats is mediated by stimulation of 5-HT2C receptors.

Mazzola-Pomietto P; Aulakh C S; Wozniak K M; Murphy D L Laboratory of Clinical Science, National Institute of Mental Health, National Institutes of Health, Bethesda, MD 20892-1264, USA.

Psychopharmacology, (1996 Feb) Vol. 123, No. 4, pp. 333-9. Journal code: 7608025. ISSN: 0033-3158.

GERMANY: Germany, Federal Republic of Journal; Article; (JOURNAL ARTICLE) Entered STN: 19 Dec 1996 Last Updated on STN: 19 Dec 1996 Entered Medline: 15 Nov 1996 Priority Journals 199611 English CORPORATE SOURCE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: DOCUMENT TYPE: PUB. COUNTRY LANGUAGE: SOURCE:

AB Intraperitoned administration of m-chlorophenylpiperazine (m-CPP) to Wistar rats produced hyperthermia with a peak effect at 30 min. Pretreatment with low doses of metergoline (5-HTI/5-HTZ antagonist), mesulergine and mianserin (5-HTZC/5-HTZA antagonists) blocked m-CPP-induced hyperthermia. Pretreatment with propranolol (beta-admenergic receptor antagonist that also has binding affinity for 5-HTZA, 5-HTZB altes), yohimbine (alpha 2-noradrenergic antagonist that also has binding affinity for 5-HTZA, 5-HTZB altes), with a peak of the attenuate m-CPP-induced hyperthermia. Olly high doses of ketanserin, LY-53857 and sites), MDL-7222 or ondanserron (5-HTZA antagonists) as well as sites), darbor attenuate m-CPP-induced hyperthermia. Daily administration of m-CPP attenuated m-CPP-induced hyperthermia. Daily administration of m-CPP attenuated m-CPP-induced hyperthermia. Daily administration of m-CPP aninopropene (Doll, a 5-HTZA agonist that also has high affinity for 5-HTZA creeptors)-induced hyperthermia. m-CPP-induced hyperthermia minopropene (Doll, a 5-HTZA agonist that also has high affinity for 5-HTZA enginist that also has high sex in the Fawn-Hooded (HH) rat strain as compared to the Wistar rat strain; in prior studies, FH rats have been found to be significantly less in the studies. FH rats have been found to be submissible to other strain. 5-HT2C-mediated pharmacologic responses. Altogether, these findings suggest that m-CPP-induced hyperthermia in rats is mediated by selective stimulation of 5-HT2C receptors. AB

Short and long-term changes in dopamine and serotonin receptor binding sites in amphetamine-sensitized rats: a quantitative autoradiographic study.

Bonhomme N: Cador M: Stinus L; Le Moal M: Spampinato U INSERM U. 259, Universite de Bordeaux II, France.

Brain research, (1995 Mar 27) Vol. 675, No. 1-2, pp. 95316519 MEDLINE PubMed ID: 7796132 MEDLINE on STN ANSWER 11 OF 15 L8 ANSWER 11 OF ACCESSION NUMBER: DOCUMENT NUMBER:

Journal code: 0045503. ISSN: 0006-8993. Journal; Article; (JOURNAL ARTICLE) (RESEARCH SUPPORT, NON-U.S. GOV'T) Priority Journals 199508 Netherlands 215-23. English AUTHOR: CORPORATE SOURCE: SOURCE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: DOCUMENT TYPE: PUB. COUNTRY: LANGUAGE:

Last Updated on STN: 17 Aug 1995
Entered Medline: 3 Aug 1995
The biochemical changes in DA and 5HT systems were investigated in amphetamine (AWPH)-sensitized rats, 1 and 15 days after cessation of treatment (5 mg/kg AWPH. i.p., twice a day for 6 days). At both times, AMPH-treated rats exhibited behavioral sensitization, as revealed by an enhancement of the stereotypic response to a challenge dose of 2 mg/kg, ip. AMPH. Basal dopamine (DA) and serotonin (5-HT) metabolism was not significantly modified in different brain areas of AMPH-sensitized rats. AB

Entered STN: 17 Aug 1995

Quantitative autoradiographic analysis of DA and serotonin 5-HT receptor subtypes was performed in the following brain regions; medial prefrontial area, dorsal and median raphe nuclei. A significant increase of [3H]SCH 23390 binding to DI DA receptors was observed in the substantia nigra pars reticulata I day but not 15 days after the cessation of AMPH treatment, whereas [3H]8-OH-DPAT binding to 5-HTIA sites was found to be significantly enhanced in the dorsal raphe nucleus at both time points. No change in D2 DA not in 5-HTIB or 5-HTIA sites was found to be 5-HTIA receptors was found in any of the brain structures examined at either time point. The obtained results suggest that DA and 5-HT systems are differently and time-dependently involved in AMPH-induced behavioral sensitization.

Evidence that 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropane (DOI)-induced hyperthermia in rats is mediated by stimulation of 5-HT2A receptors.
Mazzola-Pomietto P; Aulakh C S; Wozniak K M; Hill J L; Laboratory of Clinical Science, National Institute of Mental Health, National Institutes of Health, Bethesda, MD Psychopharmacology, (1995 Jan) Vol. 117, No. 2, pp. 193-9. Journal code: 7608025. ISSN: 0033-3158. GERWANY: Germany, Federal Republic of Journal; Article; (JOURNAL ARTICLE) Entered STN: 29 Jun 1995 Last Updated on STN: 29 Jun 1995 Entered Medline: 22 Jun 1995 MEDLINE on STN 95273535 MEDLINE PubMed ID: 7753967 Priority Journals 199506 20892, USA. Murphy D L English L8 ANSWER 12 OF 15 ACCESSION NUMBER: 9 DOCUMENT NUMBER: P CORPORATE SOURCE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: DOCUMENT TYPE: PUB. COUNTRY: LANGUAGE: SOURCE:

The effects of warious 5-HT receptor subtype-selective antagonists were studied on phenylisopropylamine hallucinogen 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropalamine hallucinogen 1-(2,5-dimethoxy-4-iodophenyl)-2-aminopropame (DOI)-induced Myperthermia in Wistar rats, in an attempt to characterize the 5-HT receptor subtype mediating DOI-induced Myperthermia with a peak effect at 60 min. Pretreatment with properanolol (beta-adrenoceptor antagonist that also has binding affinity for 5-HTIA, 5-HTIB and 5-HTZC sites), MDL-72222 or ondansetron (5-HTIA antagonists) did not attenuete DOI-induced Myperthermia. In contrast, pretreatment with merergoline (5-HTIA/5-HTZ antagonists), as well as spiperone (5-HTIA/5) attenueted DOI-induced hyperthermia. Furthermore, daily administration of DOI (2,5 md/Kg per day) for 17 days did not produce either tolerance to its hyperthermic effect or modify m-CPP-induced hyperthermia in rats. These findings suggest that DOI-induced hyperthermia in rats is mediated by stimulation of 5-HTZA receptors. AB

Role of various 5-HT receptor subtypes in mediating neuroendocrine effects of 1-(2,5-dimethoxy-4-methylphenyl)neuroendocrine effects of 1-(2,5-dimethoxy-4-methylphenyl)-2-aminopropane (DM) in rats. Aulakh C S; Mazzola-Pomietto P; Hill J L; Murphy D L Laboratory of Clinical Science, National Institute of Mencal Health, Bethesda, Maryland. The Journal of pharmacology and experimental therapeutics, (1994 Oct) Vol. 271, No. 1, pp. 143-8. 95055070 MEDLINE PubMed ID: 7965707 L8 ANSWER 13 OF 1 ACCESSION NUMBER: DOCUMENT NUMBER: CORPORATE SOURCE:

MEDLINE on STN

ANSWER 13 OF 15

PUB. COUNTRY:
United States
DOCUMENT TYPE:
United States
DOCUMENT TYPE:
JOURNAL! ARTICLE)
LANGUAGE:
FILE SEGMENT:

ENTRY DATE:
Entered STN: 10 Jan 1995
Entered Medline: 25 Nov 1994
The phenylisopropylamine hallucinogen 1-(2,5-dimethoxy-4-methylphenyl)-2aminopropane (DOM) produced dose-related increases in plasma
aminopropane (DOM) produced dose-related increases in plasma
concentrations of prolattin, adrenocorticotropic hormone (ACTH) and
conticosterone but not growth hormone in rats. Pretreatment with
metergoline (sercotain, 2-HTJ/5-HTZ antagonist), ritanserin and mianserin
(5-HTZA/5-HTZC antagonists) significantly attenuated
DOM-induced increases in prolactin, ACTH and corticosterone, whereas
mesulergine (5-HTZA/5-HTZC antagonist) pretreatment
significantly attenuated DOM-induced increases in plasma prolactin and
ACTH but not corticosterone. Pretreatment with proprandol (beta
adrenocoptor antagonist that also has high binding affinity for 5-HTLA,
5-HTLB and 5-HTZC sites), MDL-72222 and ondansetron
(5-HTS antagonists) attenuated DOM's effect on plasma prolactin, but did
not attenuate DOM-induced increases in either ACTH or corticosterone.
(5-HTSA/5-HTZC and 5-HTSA/5-HTZA/5-

L8 ANSWER 14 OF 15 MEDLINE on STN
ACCESSION NUMBER:
PubMed ID: 803508
TITLE:
Evidence that 1-(2,5-dimethoxy-4-methylphenyl)-2minopropane-induced hypophagia and hyperthermia in rats is
mediated by serotonin-24 receptors.
AUTHOR:
Mulakh C S; Mazzola-Pomietto P; Wozniak K M; Hill J L;
Murphy D L
CORPORATE SOURCE:
Murphy D L
CORPORATE SOURCE:
The Journal of pharmacology and experimental therapeutics,
(1994 Jul) Vol. 270, No. 1, pp. 127-32.
Journal code: 0376362. ISSN: 0022-3565.
DANGE:
FILE SEGMENT:
FILE SEGMENT:
Priority Journals
ENTRY MONTH:
199408
ENTRY MONTH:
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ENTRY DATE: Entered STN: 25 Aug 1994

ENTRY DATE: Entered STN: 25 Aug 1994

Instead Mediline: 15 Aug 1994

AB The administration of various doses of the phenylisopropylamine hallucinogen 1-(2,5-dimethoxy-4-methylphenyl)-2-aminopropane (DOM) to rats produced dose-related decreases in 1-hr food intake in a food-restricted paradigm and in locomotor activity. DOM also produced dose-related adrenoceptor antegonist that also has high binding affinity for serotonin (5-HT) 5-HTA, 5-HTB and 5-HTZC sites), bemesetion or ondansetron (5-HT3 antagonists) did not attenuate either DOM-induced hypophagia or hyperthermia. In contrast, pretreatment with metergoline (a 5-HTZC antagonist) and ritanserin (a 5-HTZA) Autouced hypophagia

and hyperthermia. However, pretreatment with mesulergine (a 5-HT2C/5-HT2A antagonist) significantly attendated DOM-induced hyperthermia but not hypophagia. On the other hand, spiperone (5-HTIA/5-HT2A/D2 antagonist) pretreatment significantly attendated DOM-induced hyperthermia but accentuated DOM-induced hyperthermia but accentuated DOM-induced hypophagia. Daily administration of DOM (1.0 mg kg-1 day-1) produced complete tolerance to its hypophagic effect by day 4 but did not produce cross-tolerance to m-chlorophenylpiperazine-induced hypophagia. In contrast, daily administration of DOM for 7 days did not produce etiter tolerance to its hyperthermic effect or modify m-chlorophenylpiperazine-induced hypophagia and hyperthermia in rats. These findings suggest that DOM-induced 5-HT2a receptors.

L8 ANSWER 15 OF 15 MEDLINE on STN
ACCESSION NUMBER: 94138685 MEDLINE
DOCUMENT NUMBER: Pubbled 1D: 3306109
TITLE: Evidence that RU 24969-induced locomotor activity in C57/R1/6 mice is specifically mediated by the 5HT1B receptor.
AUTHOR: Cheetham S C; Heal D J
CORPORATE SOURCE: British journal of pharmacology, (1993 Dec) Vol. 110, No.
4, pp. 1621-9. 7502536. ISSN: 0007-1188.
DOCUMENT TYPE: British journal of Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGRENT: Priority Journals
BNTRY MONTH: 199403
ENTRY DATE: Last Undated on STN: 30 Mar 1994

ENTRY DATE:
 Last Updated on STN: 30 Mar 1994
 Last Updated on STN: 30 Mar 1994
 Last Updated on STN: 30 Mar 1994
 Last Updated on STN: 30 Mar 1994

AB 1. The behavioural effects of the 5-HT1B receptor
 agonists, RU 24969 and CGS 12066B, have been investigated in C57/B1/6
 mice. 2. RU 24969 (1-30 mg kg-1) produced intense and prolonged
 hyperlocomotion and other behavioural changes. 3. CGS 12066B caused
 similar effects, but they were much less pronounced, inconsistent and
 transient irrespective of whether this drug was given i.p. (1-15 mg kg-1)
 or i.c.v. (0.2-40 micrograms). However, CGS 12066B (7.5 and 15 mg kg-1)
 or i.c.v. (0.2-40 micrograms). However, CGS 12066B (7.5 and 15 mg kg-1)
 daused a dose-related inhibition of RU 24969 (7.5 mg kg-1)-induced hyperlocomotion indicating that the former is a 5-HT1B
 partial agonist. 4. RU 24969 (7.5 mg kg-1 i.p.)-induced hyperlocomotion
 propranolol (20 mg kg-1) but not by mecoprolol (10 mg kg-1) or ICI 118,551
 (5 mg kg-1), consistent with an involvement of 5-HT1A or 5 HT2A/5-HT2C receptor antagonist, may 100135 (5 mg kg-1, s.c.), the 5 HT2A/5-HT2C receptor antagonist, ritanserin (0.1 mg kg-1) or the
 non-selective 5-HT receptor antagonists methysergide (3 mg kg-1) and
 metergoline (3 mg kg-1). 6. Although spiroxatrine (0.1 mg kg-1) and
 ketanserin (1 mg kg-1) inhibited RU 24969-induced hyperlocomotion, these
 effects were probably due to antagonism of dopamine DZ receptors
 and alpha 1-adrenoceptors respectively. (ABSTRACT TRUNCATED AT 250 WORDS)

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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("5157034").PN.	USPAT	OR	OFF	2007/04/09 09:38
L2	877056	514/217.07 OR 514/249 OR 540/599 IR 544/349	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/04/09 09:39
L3	17	L2 AND (PYRIDO[1,2-A]PYRAZINE OR PYRIDO[1,2-A]PYRAZIN)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2007/04/09 09:40